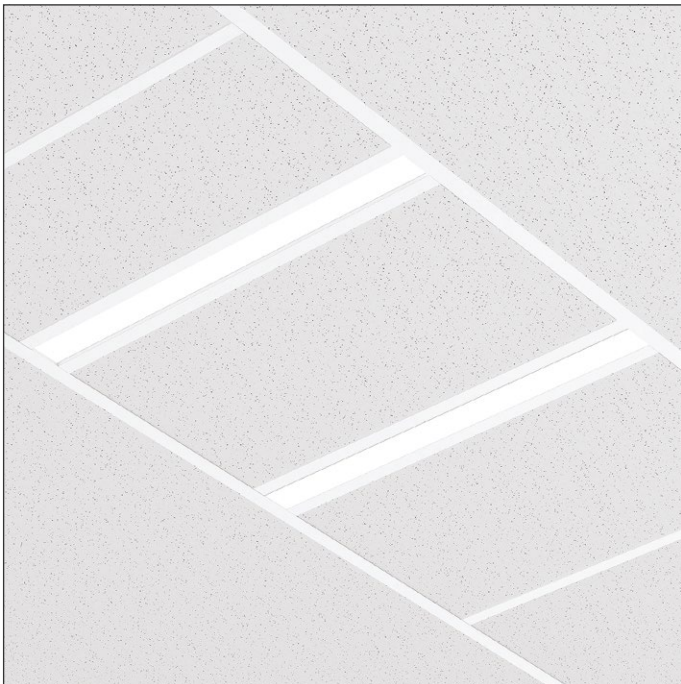


# LUMAERA MaxBM51 Recessed



51mm High-Performance Linear LED Recessed Mount



Integral Driver

## Features & Benefits

### Exceptional Performance

Up to 4,921 lm/m, 150 lm/W efficacy

### Wide Range of LED Selections

Static, Tunable White and Dim-to-Warm

### Designed with Options

Wide choice of SmartOptic® lenses, beam distributions, 80/90/95+ CRI, 2200K to 5000K CCT, and 0-10V, DALI, DMX, and TRIAC dimming

### Multiple Beamshapes

Clever beam shaping technology creates a range of options

### Proprietary Optical Components

Provides excellent light distribution and high-transmission

### Compliance

UKCA, CE, UL, Suitable for Dry and Damp Locations

### 5-Year Warranty

Standard 5-year warranty, 50,000 hours lifetime

## FIXTURE ORDERING

Project Name

Fixture Type

### 1) FIXTURE TYPE & MOUNTING DESIGN

| PRODUCT   | FLANGE TYPE  | LENGTH  | FINISH  | OPTIC (Direct Only)  |
|---|--|---|---|--|
| <b>MABM51-R</b>                                 |  |   |   |  |
| 51mm High-Performance Linear LED Recessed Mount | <b>F1</b> 14mm Flat T-Bar<br><b>F2</b> 14mm Bolt Slot T-Bar<br><b>F3</b> 24mm Flat T-Bar<br><b>MK</b> Mud-In Kit | <b>610mm</b> 610mm<br><b>1220mm</b> 1220mm<br><b>1830mm</b> 1830mm<br><b>2440mm</b> 2440mm<br><b>3048mm</b> 3048mm<br><b>X_</b> Specify Xmm | <b>MWH</b> Matte White (RAL9003)<br><b>MBK</b> Matte Black (RAL9005)<br><b>MGR</b> Matte Gray (RAL7001)<br><b>CAE</b> Clear Anodized Effect<br><b>RAL_</b> Specify RAL# | <b>OFL</b> Flush Lens<br><b>ORL</b> Regressed Lens<br><b>OCRL</b> Continuous Regressed Lens <sup>1</sup> |

### 2) LED LIGHT ENGINE

| CRI                             | CCT                                     | DIRECT BEAM PATTERN                      | DIRECT OUTPUT          |
|---------------------------------|---|--|------------------------|
| <b>S80</b> Std. 80 CRI          | <b>2200K</b> 2200K                      | <b>DLAM</b> Lambertian                   | <b>1148</b> 1148 lm/m  |
| <b>S90</b> Std. 90 CRI          | <b>2700K</b> 2700K                      | <b>DBW60</b> Batwing 60°                 | <b>1640</b> 1640 lm/m  |
| <b>HE80</b> High-Eff. 80 CRI    | <b>3000K</b> 3000K                      | <b>DDA70</b> Double Asymmetric 70°       | <b>2460</b> 2,460 lm/m |
| <b>HE90</b> High-Eff. 90 CRI    | <b>3500K</b> 3500K                      | <b>DA5025</b> Asymmetric 50° at 25° Tilt | <b>3280</b> 3,280 lm/m |
| <b>HD95</b> High-Def. 95 CRI    | <b>4000K</b> 4000K                      | <b>DA4005</b> Asymmetric 40° at 5° Tilt  | <b>4101</b> 4101 lm/m  |
| <b>SUN</b> Full SunLike         | <b>5000K</b> 5000K                      | <b>DM55</b> Medium 55°                   | <b>4821</b> 4821 lm/m  |
| <b>SBIOS</b> Static BIOS        | <b>3022D</b> 3000K to 2200K             | <b>DN40</b> Narrow 40°                   | <b>X_</b> Specify lm/m |
| <b>DBIOS</b> Dynamic BIOS       | <b>3527D</b> Dim-to-Warm 3500K to 2700K | <b>X_</b> Specify Beam                   |                        |
| <b>TBIOS</b> Tunable White BIOS | <b>X_</b> Dim-to-Warm Specify CCT       |  |                        |

### 3) FIXTURE POWER & CONTROLS

| LINE VOLTAGE (AC)   | INTEGRAL DRIVER (POWER)            | EMERGENCY BACKUP                             | CONTROL SYSTEM <sup>2</sup>      |
|---------------------|------------------------------------|--|----------------------------------|
| <b>UNV</b> 120/277V | <b>FDND</b> Factory Non-Dimming    | <b>NN</b> Not Needed                         | <b>NN</b> Not Needed             |
| <b>347</b> 347V     | <b>FD01</b> Factory 0-10V 1% Dim   | <b>EMC</b> Emergency Circuit                 | <b>LUT</b> Lutron                |
|                     | <b>FD10</b> Factory 0-10V 10% Dim  | <b>EMB</b> Emergency Battery (10W - Onboard) | <b>COO</b> Cooper                |
|                     | <b>FDDA</b> Factory DALI 0.1% Dim  | <b>X_</b> Specify Backup                     | <b>CAS</b> Casambi               |
|                     | <b>FDDX</b> Factory DMX Dim        |  | <b>X_</b> Specify Control System |
|                     | <b>FDTR</b> Factory TRIAC Dim      |  |                                  |
|                     | <b>LD01</b> Lutron Hi-Lume 1% Dim  |  |                                  |
|                     | <b>LD05</b> Lutron 5-Series 5% Dim |  |                                  |
|                     | <b>ED00</b> eldoLED 0-10V 0.1% Dim |  |                                  |
|                     | <b>ED01</b> eldoLED 0-10V 1% Dim   |  |                                  |
|                     | <b>EDDA</b> eldoLED DALI 0.1% Dim  |  |                                  |
|                     | <b>X_</b> Specify Driver           |  |                                  |

### 4) FIXTURE CONNECTIONS

#### POWER CORD

**S06WH** 0.6m White Cable Kit  
**S06BK** 0.6m Black Cable Kit

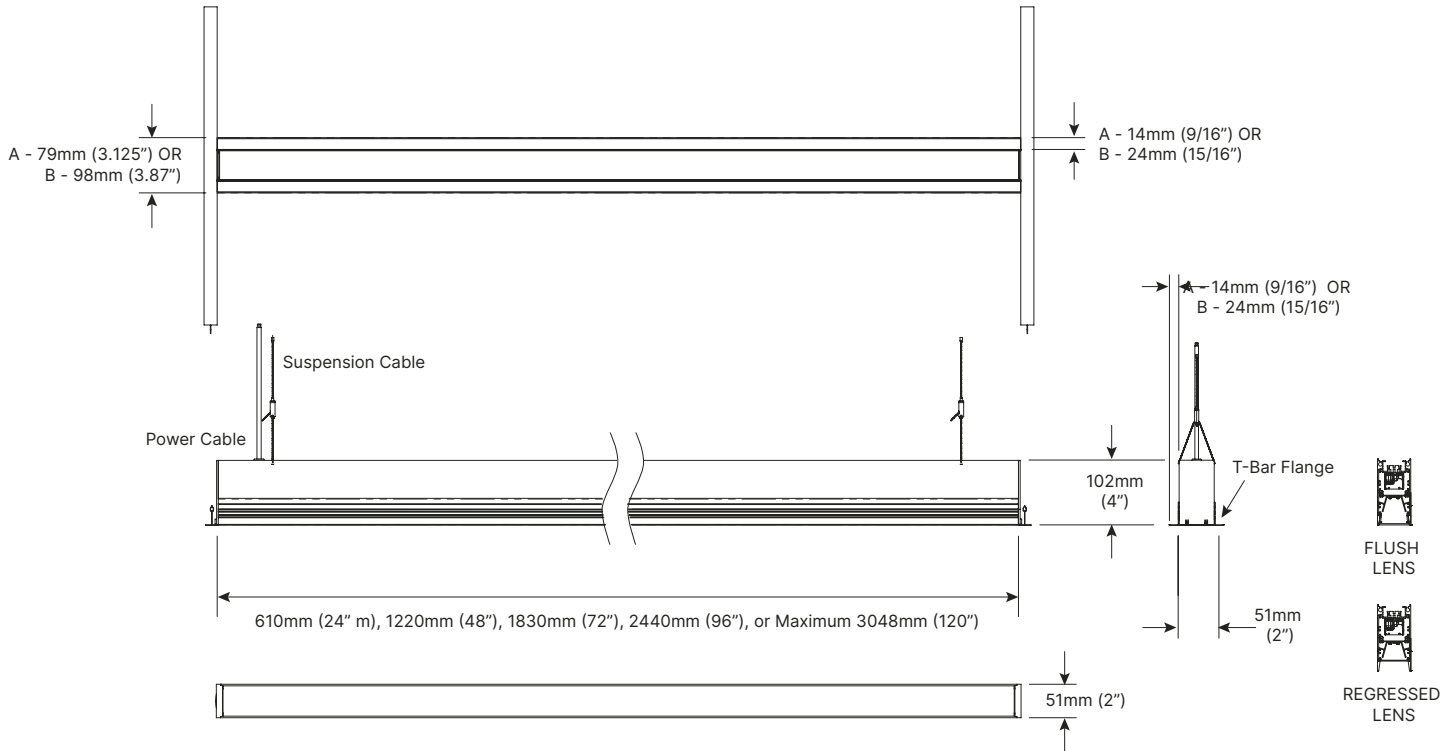
### NOTES

<sup>1</sup>Continuous Regressed Lens ships on a roll for seamless lens installation.

<sup>2</sup>The control system and driver must be compatible.

## FIXTURE DESIGN

### Dimensions



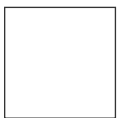
### Length

#### Length Options

610mm, 1220mm, 1830mm, 2440mm, 3048mm nominal

### Finish

#### Housing Colours (Matt Finish)



White (RAL9003)



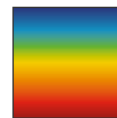
Black (RAL9005)



Gray (RAL7001)



Clear Anodised Effect



Custom RAL

#### Housing Material

6063-T5 extruded, recycled aluminum

#### Mounting Brackets

Sheet Metal

### Optic

#### Lens Options

Flush, Regressed and Continuous Regressed

#### Lens Material

Acrylic (PMMA)

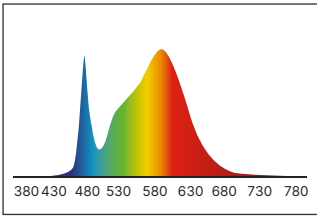
### Voltage

#### Input Voltage (AC)

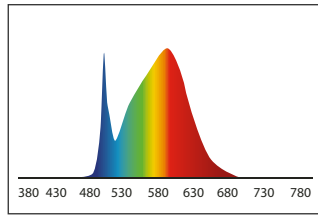
120/277 VAC and 347 VAC, 50/60Hz

## LED SELECTION GUIDE

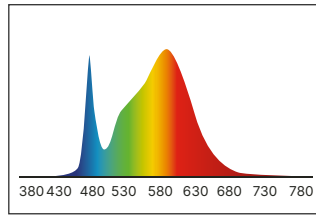
**S80:** Standard 80+ CRI



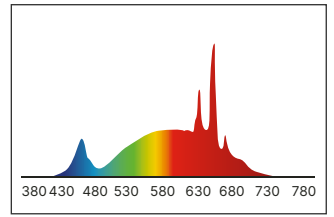
**S90:** Standard 90+ CRI



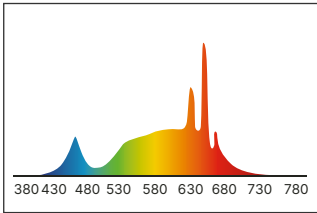
**HE80:** High-Efficiency 80+ CRI



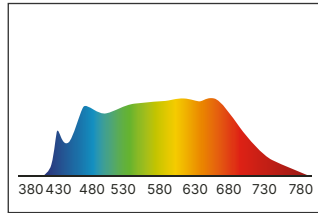
**HE90:** High-Efficiency 90+ CRI



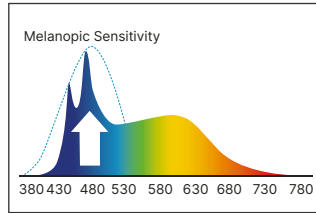
**HD95:** High-Definition 95+ CRI



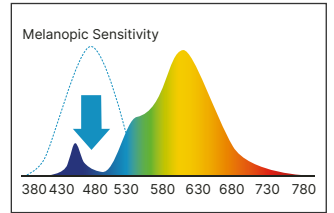
**SUN:** Full Spectrum "SunLike"



**HCD:** Human Centric Day



**HCN:** Human Centric Night



### Static White Light (LED Light Engine Only)

| CODE | DESCRIPTION            | TYPICAL LED DATA |      |        |         |         |      |           |     |
|------|------------------------|------------------|------|--------|---------|---------|------|-----------|-----|
|      |                        | CCT              | CRI  | CRI R9 | TM30 Rf | TM30 Rg | CQS  | M/P Ratio | LPW |
| S80  | Standard 80 CRI        | 3500K            | 82.5 | 7.8    | 84      | 96.7    | 82.5 | 0.51      | 190 |
| S90  | Standard 90 CRI        | 3500K            | 91   | 54.3   | 89.3    | 98.9    | 89.2 | 0.55      | 175 |
| HE80 | High Efficiency 80 CRI | 3500K            | 82.1 | 5.9    | 83      | 94.2    | 81.2 | 0.52      | 210 |
| HE90 | High Efficiency 90 CRI | 3500K            | 92.2 | 90     | 90.7    | 103.8   | 92.1 | 0.56      | 190 |
| HD95 | High Definition 95 CRI | 3500K            | 97.1 | 95     | -       | -       | -    | 0.70      | 163 |
| SUN  | Full Spectrum SunLike® | 3500K            | 95   | 85     | -       | -       | -    | -         | 130 |
| HCD  | Human Centric Day      | 4000K            | 83   | 95     | -       | -       | -    | 0.92      | 155 |
| HCN  | Human Centric Night    | 2700K            | 80   | -      | -       | -       | -    | 0.44      | 134 |

### Static White Light (LED Light Engine Only)

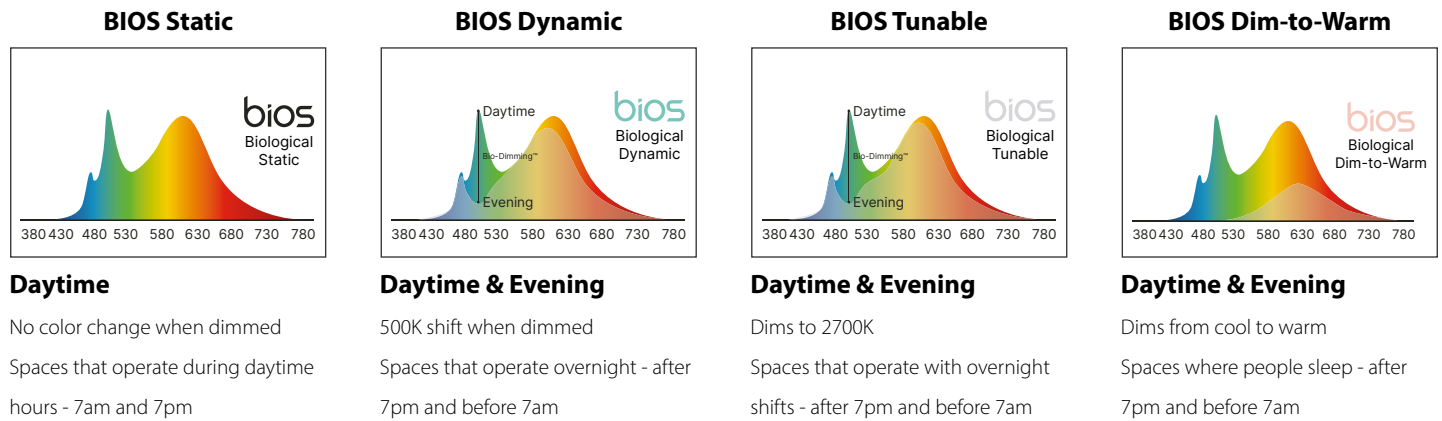
| CODE | CCT SELECTED |       |       |       |       |       |       |       |
|------|--------------|-------|-------|-------|-------|-------|-------|-------|
|      | 2200K        | 2700K | 3000K | 3500K | 4000K | 5000K | 5700K | 6500K |
| S80  | -            | 0.91  | 0.96  | 1.00  | 1.04  | 1.11  | 1.11  | 1.11  |
| S90  | -            | 0.91  | 0.96  | 1.00  | 1.04  | 1.11  | 1.11  | 1.11  |
| HE80 | -            | 0.96  | 0.99  | 1.00  | 1.03  | 1.04  | 1.03  | 1.03  |
| HE90 | -            | 0.91  | 0.96  | 1.00  | 1.04  | 1.11  | N/A   | N/A   |
| HD95 | -            | 0.91  | 0.96  | 1.00  | 1.04  | 1.11  | 1.03  | 1.04  |
| SUN  | -            | 0.90  | 0.92  | 1.00  | 1.01  | 1.07  | 1.04  | 1.05  |
| HCD  | -            | N/A   | 0.96  | 1.00  | 1.04  | 1.04  | 1.04  | 1.04  |
| HCN  | -            | 0.87  | 0.96  | 1.00  | 1.04  | N/A   | N/A   | N/A   |

## BIOS TECHNOLOGY

### Choosing Your BIOS Solution

BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology - Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm.

BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective daytime circadian signal using standard architectural color temperatures.



### Circadian and Human Centric Light

| CODE     | DESCRIPTION             | BIO-DIMMING MODULE TECHNOLOGY GUIDE |  |               |                             |   |   |
|----------|-------------------------|-------------------------------------|--|---------------|-----------------------------|---|---|
|          |                         | Driver                              | Driver voltage   | CCT           | Requires BIO-Dimming Module | Lighting Control  | BIOS SkyBlue (490nm)                    |
| SBIOS    | BIOS Static             | DIM1                                | 0-10V Dimming to 1% Dim-to-Dark  | No CCT Change | No                          | Intensity Dimming Control Only                            | Always Present                          |
| DBIOS    | BIOS Dynamic            | BIODIM1                             | 0-10V Intensity Dimming to 1% Dim-to-Dark  | 500K Shift    | Yes                         | Intensity Dimming & Spectrum Change Controlled Together   | Removed with BIO-Dimming                |
| DBIOS-2  | BIOS Dynamic (2 ch)     |                                     |  |               | No                          | Intensity Dimming & Spectrum Change Controlled Separately | Removed by Adjusting "Spectrum Channel" |
| TBIOS    | BIOS Tunable            | ATW/DTW                             | 0-10V Control of Intensity & CCT on Separate 2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels | Dims to 2700K | Yes                         | Intensity Dimming & spectrum Change Controlled Together   | Removed with BIO-Dimming                |
| TBIOS-2  | BIOS Tunable (2 ch)     |                                     |  |               | No                          | Intensity Dimming & Spectrum Change Controlled Separately | Removed by Adjusting "Spectrum Channel" |
| DWBIOS   | BIOS Dim-to-Warm        | -                                   | -  | Dims to 2200K | Yes                         | Intensity Dimming & Spectrum Change Controlled Together   | Removed with BIO-Dimming                |
| DWBIOS-2 | BIOS Dim-to-Warm (2 ch) |                                     |  |               | No                          | Intensity Dimming & Spectrum Change Controlled Separately | Removed by Adjusting "Spectrum Channel" |

## SMARTBEAM® TECHNOLOGY

### The Ultimate Control of Lighting Distributions

SmartBeam makes it easy to specify the exact light required for any architectural space. Available in every Vexica indoor product; it is now possible to create truly tailored and engaging lighting that transform spaces, improves visual comfort, and saves energy.

## FIXTURE POWER & CONTROLS

### Input Voltage

**LED Driver** Factory Selected, 36-39V Constant Current

### Emergency Backup

**Backup Types** Emergency Circuit, Emergency Battery (Remote), and other emergency backups are available

**Wiring** Typically the Emergency Backup is wired to 1220mm sections

**Power** 10W

**Illumination Time** 90 Minutes

### Partners



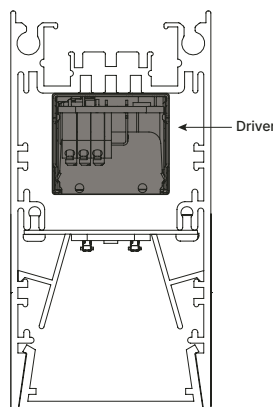
### Control Systems (Integral Drivers)

**Other** Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim, and other drivers are available, consult factory (not all integral)

**Lutron** Hi-Lume 1% Dimming and 5-Series 5% Dimming

**Cooper** Compatible driver

**Casambi (Wireless)** Compatible driver

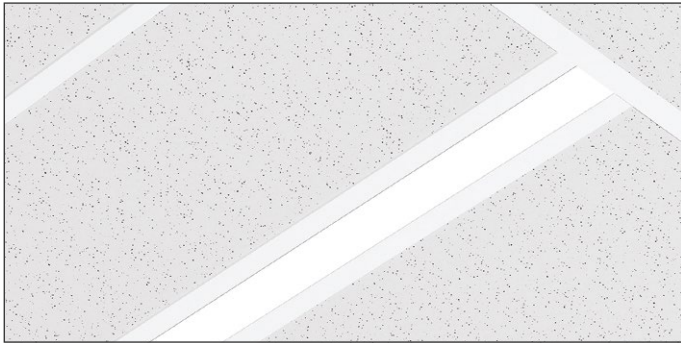


Drivers are integral to the fixture and are included.

They provide 0-10V, DALI, DMX, and TRIAC dimming.

Also compatible with Cooper and other common building control systems, including PoE and wireless.

## OPTICS OPTIONS



Flush Lens



Regressed Lens

## FIXTURE MOUNTING & CONNECTIONS

### Mounting Type

#### Recessed Mount

Installs into a surface. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

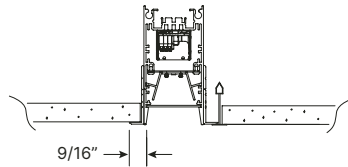
### Cable Kit

#### Suspension Cable

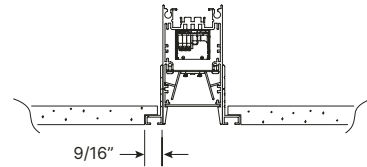
Stainless Steel

### Mounting Options

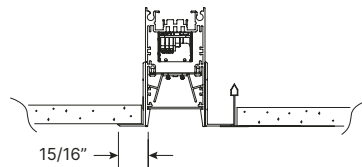
F1 - 14mm (9/16")  
Flat T-Bar Mount



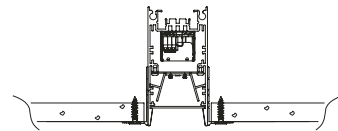
F2 - 14mm (9/16")  
Bolt Slot T-Bar Mount



F3 - 24mm (15/16")  
Flat T-Bar Mount



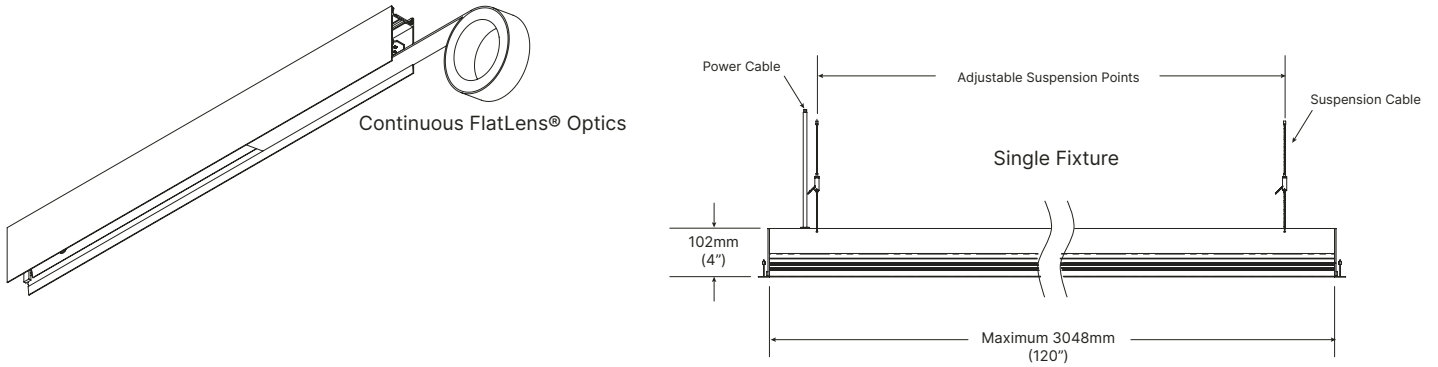
MK - Mud-In Kit



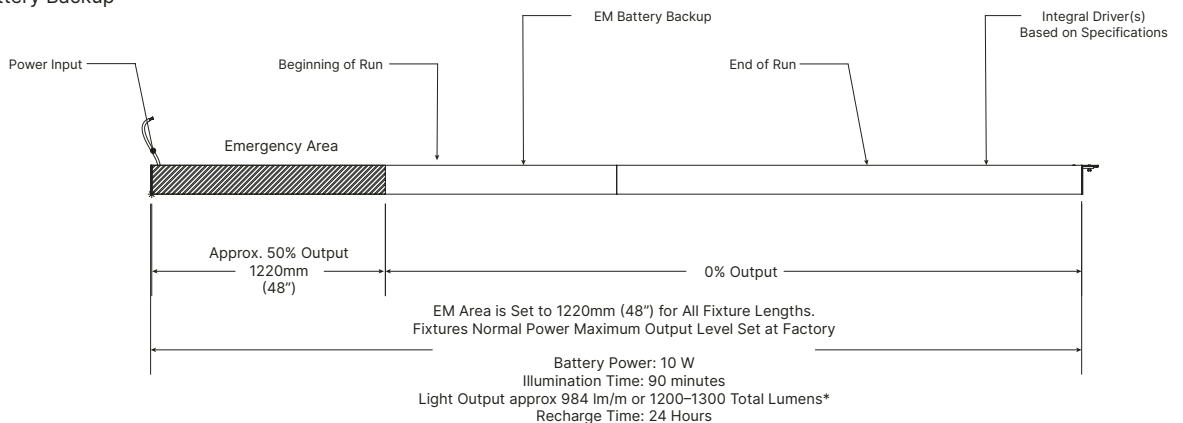
## Standard Lengths & Continuous Runs

Maximum length of one fixture is 3048mm. Longer runs can be produced by joining sections. Customer approval of shop drawings is required prior to build of any non-standard length order.

Lens can be supplied in a maximum 76m roll length with Continuous FlatLENS Optics to be installed on-site for a seamless light surface.



## Emergency Battery Backup



\*Light output may vary based on fixture output level ordered.

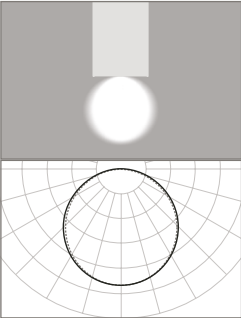
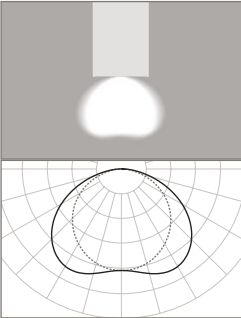
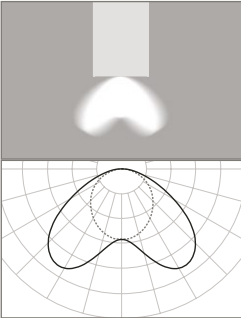
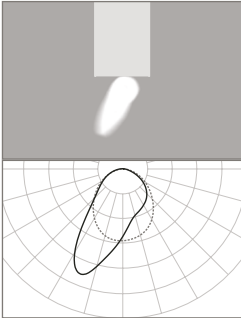
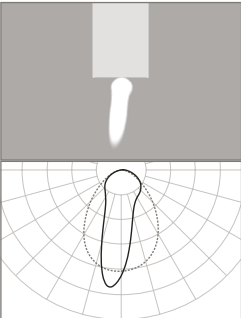
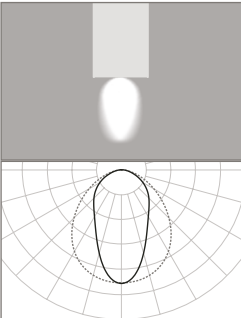
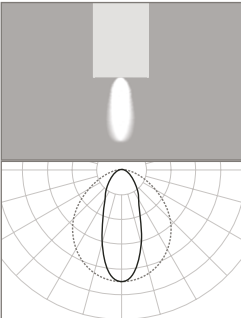


## BEAM PATTERN SELECTION GUIDE

### Beam Pattern Availability

| OPTIC          | BEAM PATTERN |       |       |        |        |      |      |
|----------------|--------------|-------|-------|--------|--------|------|------|
|                | DLAM         | DBW60 | DDA70 | DA5025 | DA4005 | DM55 | DN40 |
| Flush Lens     | *            | *     | *     | *      | *      | *    | *    |
| Regressed Lens | *            | *     | *     | *      | *      | *    | *    |

### Direct Photometrics Static White Light

|   |   |   |   |
|---|---|---|---|
| <p><b>DLAM</b><br/>Lambertian</p>    | <p><b>DBW60</b><br/>Batwing 60°</p>    | <p><b>DDA70</b><br/>Double Asymmetric 70°</p>   | <p><b>DA5025</b><br/>Asymmetric 50° at 60° Tilt</p>    |
| <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,460<br/><b>Watts</b> 21<br/><b>W/m</b> 17.3<br/><b>LPW</b> 142</p> | <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,460<br/><b>Watts</b> 21<br/><b>W/m</b> 17<br/><b>LPW</b> 145</p>   | <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,460<br/><b>Watts</b> 22<br/><b>W/m</b> 17.8<br/><b>LPW</b> 138</p> | <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,460<br/><b>Watts</b> 21<br/><b>W/m</b> 17.2<br/><b>LPW</b> 143</p> |
| <p><b>DA4005</b><br/>Asymmetric 40° at 5° Tilt</p>   | <p><b>DM55</b><br/>Medium 55°</p>    | <p><b>DN40</b><br/>Narrow 40°</p>   |   |
| <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,461<br/><b>Watts</b> 22<br/><b>W/m</b> 17.7<br/><b>LPW</b> 139</p> | <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,461<br/><b>Watts</b> 22<br/><b>W/m</b> 17.9<br/><b>LPW</b> 137</p> | <p><b>Length</b> 1220mm<br/><b>LED</b> HE90<br/><b>CRI/CCT</b> 90+/3500K<br/><b>Lumens</b> 3,000<br/><b>lm/m</b> 2,461<br/><b>Watts</b> 22<br/><b>W/m</b> 18.1<br/><b>LPW</b> 136</p> |   |

## STANDARDS & CERTIFICATIONS

### Compliance

#### Standard Marks



### Environmental Suitability

#### IP Rating

Suitable for Dry and Damp Locations, indoor use only

#### Sustainability

Responsibly manufactured from materials that are free from 'Red List' chemicals

#### Recyclable

Optics and all powder coated and anodized parts are fully recyclable at end of life

### Reliability

#### Manufacturing

All Vexica products are manufactured in our UK-based factory using ethically sourced components from internationally recognised 'tier 1' suppliers

#### Quality Assurance

Each product is designed and manufactured for reliability and each batch undergoes through quality assurance testing

### Warranty & Terms

#### 5 Year Warranty

#### Terms & Conditions

QR CODE

QR CODE

For details on our warranty and business terms, please click or scan the QR Code.

